

# Receiving Report

Date:

14/9/5

Batch No:

M/30281

Supplier:

BEAFER

Dart P/O:

25584

Packing Slip: Yes ✓ No      
 Invoice: Yes     No ✓  
 Receipt: Cash     Cr ✓  
 New Supplier Yes     No ✓

Release Note Attached: Yes ✓ No     N/A      
 Waybill Attached: Yes     No ✓  
 Shipment Complete: Yes ✓ No     N/A      
 QC18 Inspection 1 N/A      
 Work Order     N/A ✓

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

[Signature]

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO25584**

Purchase Order Date 9/2/2014

PO Print Date 9/2/2014

Page Number 1 of 2

**Order From :**

VU-BEA001

B/E AEROSPACE INC  
88289 EXPEDITE WAY  
CHICAGO, IL 33172  
USA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

**Contact Name**

**Vendor Phone** 305-925-2600

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

*M130281*

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	NAS1329C3KB130	Insert	9/4/2014 Yes 9/4/2014		50.00 Each	\$1.23	\$61.50
Line Total:							\$61.50
2	MS24694-S50 <i>293</i>	Screw	9/4/2014 Yes 9/4/2014		200.00 Each ✓	\$0.08	\$16.00
Line Total:							\$16.00
3	MS35207-262 <i>282</i>	Screw	9/4/2014 Yes 9/4/2014		50.00 Each ✓ <i>P1495</i>	\$0.30	\$15.00

Note:

9/2/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

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Page Number 2 of 2

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USA

VU-BEA001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

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**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$15.00

4 MS21075L3

Nut Plate

9/4/2014 FN

100.00

\$0.40

\$40.00

Yes

Each

9/4/2014

**Line Total:** \$40.00

5 71401-45

PROCUREMENT  
QUALITY CLAUSES

9/4/2014

1.00

\$0.00

\$0.00

No

9/4/2014

**Procurement Quality Clauses**

A005 RIGHT OF ENTRY

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

**Line Total:** \$0.00

**PO Total:** \$132.50

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr:

1

Change Date: 9/2/2014



# B/E Aerospace, Inc.

Page: 1 of 1

## CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.beconsumables.com

Shipped From: 650 LONGBEACH BLVD, STRATFORD, CT 06615

### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO25584**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	50	EA	NAS1329C3KB130		380322	PENN ENG & MFG.	46384		

Jason Lewis  
Vice President of Quality

09/03/14

# PACKING LIST

ENFASCO INC.

Branch: 000 ENFASCO

1675 Hylton Road  
Pennsauken, NJ 08110-1313  
US



Pick Ticket Number	
2067582	
Pick Date	Page
4/25/2014 11:15:06	1 of 1
ORDER NUMBER	
1110667	

**Bill To:**

B/E AEROSPACE INC.  
EMAIL INVOICES  
cm\_payables@beaerospace.com  
MIAMI, FL 331025263  
US  
3059252600

**Ship To:**

B/E AEROSPACE INC.  
650 LONG BEACH BOULEVARD  
STRATFORD, CT 06615  
US

Ordered By: Mr. JOHN POESCHL

Customer ID: 103199

PO Number		Terms Description		Net Due Date	Disc Due Date	Discount Amount
0TTX30		1% 10 Net 30				
Order Date	Pick Ticket No	Primary Salesrep Name			Taker	
1/16/2014 09:55:37	2067582	HOUSE-H H			TPETRARCA	
Quantities				Item ID	UOM	
Ordered	Shipped	Remaining	Disp.	Item Description	Unit Size	

**Delivery Instructions:** FED EX GRD 0331-0149-0, DO NOT  
INSURE, EACH CARTON NOT TO EXCEED  
40 LBS

**Carrier:** FEDERAL EXPRESS GROUND

**Tracking #:**

2,500

1,171

0

AESS10-KB-130

EA

ATLAS RIVET-NUT

1.0

NAS1329C3-KB-130

SS10-KB-130

**Ordered As:** NAS1329C3-KB-130

**Qty:** 1,171 EA

**Lot Number:** 380322

Ctr# 2014D28887  
Part#: NAS1329C3KB130  
Lot#: 380322  
PO#: 0TTX30 QTY: 1171



Thank You for your order.

Note: Claims for shortages or a material discrepancy must be made within 30 days after receipt of material. Enfasco's liability is limited to replacing the material or refunding the invoice value of the material sold.

## CERTIFICATE OF CONFORMANCE

It is hereby certified that all articles in the above shipments are in conformance with the requirements, specifications and drawings applicable to the above contractor's purchase order. Supporting documentation is available on file for examination.

PennEngineering®



5190 Old Easton Road  
Danboro, PA 18916  
Tel: 215-766-5987  
Fax: 215-766-5988  
www.pemnet.com

April 24, 2014

Engineered Fastener Co.  
1675 Hylton Road  
Pennsauken, NJ 08110

Reference: Certification for AESS10KB130  
Lot # 380322, Test Log #14-0186  
Customer Order No. D3013786, Qty: 2860  
Cage Code: 46384

Gentlemen:

This letter shall serve as certification that the product listed above has had samples tested and accepted to the requirements of PennEngineering and NAS1329C3KB130.

The raw material that was used to manufacture these parts was melted in the USA or a qualifying country and complies with applicable sections of DFARS 252.225.

Results of dimensional inspection and performance testing have been documented in the referenced test log for the applicable lot number.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jim Fleck".

Jim Fleck  
Quality Technician

As of 12 July, 2001, MS27130F, dated 29 January, 1985 and MS27131C, dated 01 February 1996 have been cancelled and superseded by NAS1329 and NAS 1330.

Cancelled means that the document's Preparing activity has determined that the document is no longer needed for acquisition, re procurement or design.



LOT #63555

PERTH, ON  
ERIN, ON  
DUMAS, AR  
LANCASTER, SC

813-267-3752 FAX 813-267-6617  
519-833-9832 FAX 519-833-2213  
870-382-2880 FAX 870-382-6988  
803-283-3353 FAX 803-283-6303



FOND DU LAC, WI  
UNION, IL  
PERMIS, CA

820-826-0809 FAX 820-826-0852  
815-823-2131 FAX 815-823-2128  
851-867-2106 FAX 851-943-8061

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS  
EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: [sales@centralwire.com](mailto:sales@centralwire.com)

CENTRAL WIRE  
6508 OLSON ROAD  
TEL: 815-923-2131

UNION, IL 80180-9730  
FAX: 815-923-2128

## CERTIFICATE OF CONFORMANCE

SOLD  
TO

ATLAS ENGINEERING INC.  
5190 OLD EASTON ROAD  
DANBORO PA 18916  
USA

SHIP  
TO

ATLAS ENGINEERING INC.  
5190 OLD EASTON ROAD  
DANBORO PA 18916  
USA

CUSTOMER'S PO NO.	TYPE OF CERT	CUSTOMER	ORDER NO.	WORK ORDER	DATE SHIPPED
937934	Customer	103296	1181183 1	4143244	3/07/13

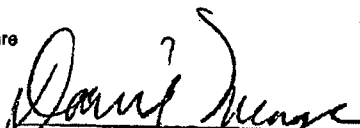
SPECIFICATIONS:  
SS430 REV. C WITH EXCEPTION TO SECTION 4.2.1.2  
(AS OUTLINED IN ROHS LETTER, FEB 2012)

ITEM DESCRIPTION		
DESCRIPTION	SPEC. CLASS	HEAT
Cold Heading 430 SKIN PASSED Seam Free .2390 Coils Std. Copper/Techcoat	Melt mill NAS Country of origin USA	C7N6
	QTY SHIP 512	044


CHEMICAL ANALYSIS						
C .029	MN .50	SI .33	P .031	S .0023	CR 16.09	NI .35
MO .05	CU .27	N .019	C + N .048	AL .0035	CO .02	SN .012

MECHANICAL PROPERTIES							
AS SHIPPED PROPERTIES:							
TENSILE 77.000 KSI							
AFTER HEAT TREAT PROPERTIES:							

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours, 

AUTHORIZED SIGNATURE



W/0380320 AESSIDKB130

Approved by Bruce Hogie  
Revision Date: 2/13/2013

## CERTIFICATE OF COMPLIANCE

**SUPPLIER:** Beringer Plating Inc.  
1211 DeValera Ave.  
Akron, OH 44310  
330-633-8409 Fx 330-633-8447  
[sales@beringerplating.com](mailto:sales@beringerplating.com)

**CUSTOMER:** Atlas Engineering, Inc.

**Beringer Number:** 79854

**P.O. Number:** 870138

**W.O. Number:** 380322

**Part Number:** AESS10KB130

**Quantity:** 3,300 pcs.

Product Pickled per ASTM A380 and Passivated per AMS 2700E Me 1, Ty II  
Product meets requirements for Surface appearance and Corrosion Test (Humidity) per  
**Specifications:** AMS 2700E

Mercury Free Clause: No possibility exists for mercury contamination to occur during processing or testing of parts on this contract

**Coating Thickness:** Visual inches

**Embrittlement Relief**

**Baked:** N/A Hours at        F

Inspection Level to applicable standard:

S-3 of MIL.-STD.-105D: 4%

ASTM B602 Table II: 1.5%

Aircraft Braking System: 1%

ACC. X

**Certified By:**

James Beringer Jr.  
James Beringer Jr.  
President

**Date:** 4/16/2014







## Physical Test Results

<b>Part Number</b>	AESS10KB130	<b>Test Date</b>	4/23/2014
<b>Lot Number</b>	380322	<b>Test Number</b>	14-0186
<b>Work Order No</b>	380322-1	<b>Material Lot</b>	53555
<b>Grip Range</b>	.080-.130	<b>Material Type</b>	SS430
<b>Part ID</b>	1 RAD		

Sample	Grip	Head Diameter	Head Thickness	Thread Gage	Minor Dia.	Shank Diameter	Overall Length	Ultimate Thread Test
1	0.102	0.405	0.037	Pass	Pass	0.249	0.852	3250
2	0.102	0.408	0.037	Pass	Pass	0.249	0.850	3250
3	0.102	0.404	0.039	Pass	Pass	0.249	0.848	3250

<b>Test Result:</b>	<b>Pass</b>	<b>Average</b>	<b>3250.00</b>
---------------------	-------------	----------------	----------------

Minimum Ultimate Thread Strength (per NAS 1329, NAS 1330)						
Thread Codes	Aluminum	Carbon Steel	430 SS	Alloy Steel	Brass	316 SS
4, 440	510	910	1270	1170	910	1270
6, 632	650	1330	1670	1590	1330	1670
8, 832	800	1660	1950	2370	1660	1950
10, 1024, 1032	1070	1850	3150	4130	1850	3150
25, 420, 428	1820	3500	4760	6590	3500	4760
31, 518, 524	2290	4330	6870	9040	4330	6870
37, 616, 624	3340	6840	8450	12700	6840	8450
50, 813, 820	4300	6900	10400	N/A	6900	10400
tests are conducted per ASTM F806						

Tested by: 3231



This test report shall not be reproduced except in full, without written approval from PennEngineering.

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0KTR91

PART NUMBER: MS24694-S50

REV: 2

LOT NUMBER: 65120

MANUFACTURED QUANTITY: 270,000

MILL HEAT NUMBER: 8172012

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 08/07/13

  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.  
1110 EAST ENTERPRISE  
OTTAWA, KS 66067

## CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER B/E AEROSPACE	PO NUMBER OKTR91	MFG QUANTITY 270,000	DATE 08/07/13
PART NUMBER MS24694-S50	REV 2	LOT NO 65120	PROCUREMENT SPEC NASM7839

MATERIAL TYPE 8740				MATERIAL SPECIFICATION MIL-S-6049/AMS6322				MILL HEAT NUMBER 8172012			SUPPLIER JOHNSTOWN		
C .42	Si .25	Mn .87	P .008	S .013	Cu .07	Ni .43	Cr .49	Mo .21	V .003	B	Fe	Al .031	Ti
	Co	N .0060	Bi	Pb	Mg	Zn		Nb	Sn .005			Other	

### MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
2,930	2,920
2,930	2,940
2,940	2,930
2,900	2,900
2,910	2,910
2,910	
2,920	
2,900	
MIN. REQ.	2500

DOUBLE SHEAR STRENGTH POUNDS / PSI
NOT REQUIRED
MIN. REQ.

HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	13
ACTUAL RESULTS	
31 - 32 HRC	

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Recess Torque Test	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Magnetic Permeability ASTM A342 less than 2.0	<input type="checkbox"/>

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3	System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22	System <input type="checkbox"/> 23

### TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

  
Quality Assurance Representative

AS9100C REGISTERED  
SAI GLOBAL - 0058029

MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

## HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 08/07/13

PO NUMBER: 0KTR91

MANUFACTURED QUANTITY: 270,000

PROCESSOR:

BODYCOTE MCLEAN - NADCAP ID 4464

LOT NUMBER: 65120

MATERIAL: TYPE 8740

PART NUMBER: MS24694-S50

REVISION: 2

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 13

HARDNESS: 31 - 32 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

  
\_\_\_\_\_  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company - SAI GLOBAL - 0058029

# **DE TRAY**

## **Plating Works**

**Specialized Electro-Plating and Polishing**  
**Nickel**  
**Copper**  
**Decorative Chrome**  
**Satin Chrome**  
**Zinc**  
**Cadmium**  
**Passivate**  
**Bright Dip**  
**Strip Copper**  
**Descale**

**10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052**  
**Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@aol.com**

August 5, 2013

Mac Fasteners  
1110 East Enterprise Street  
Ottawa, Kansas 66067

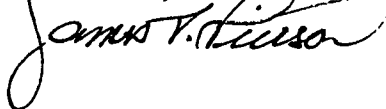
Subject: Certification

This is to certify that the following parts have been cadmium plate per QQ-P-416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 3. Please reference our Invoice#171866 dated 8/05/2013 for:

Lot#- 65120

P.N.- MS24694S50

James T. Pierson, Vice-President



DE TRAY PLATING WORKS

Please Visit our Web Site : [DeTrayPlating.com](http://DeTrayPlating.com)



# Johnstown Wire Technologies

124 Laurel Ave,  
Johnstown, PA 15906

Phone: 814-532-5680  
Fax: 814-532-5684

WORK ORDER  
688598

## TEST REPORT

LOT NUMBER  
K-8172012

SALES ORDER / RLS  
001324 / 3

SOLD TO

Mac Fasteners, Inc.  
C/O TD Logistics Inc.  
14505 W 100th Street  
Lenexa, KS 66215  
USA



CUSTOMER P.O. 50516	CUSTOMER PART	QUANTITY 19,648 LBS	COILS 10	LADING NO 00117188	SHIPMENT DATE 05/03/2013							
<b>SPECIFICATION MacFast-87186</b> <b>AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS Defense Federal Acquisition Regulation</b> <b>Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod</b> <b>Spheroidize Annealed In Process Heavy Phos &amp; Light Lube Ctd</b> <b>Size: .1865 +.001 -.000</b>												
CERTIFICATION REQUIREMENTS												
Chemical												
C	Mn	P	S	Si	Al	Ni	Cr	Mo	Cu	V		
.42	.87	.008	.013	.25	.031	.43	.49	.21	.07	.003		
Cb	Ti	N	Sn									
.001	???????	.0060	.005									
Physical												
AMS 2301	J1	J10	J11	J12	J2	J3	J5	J4	J6	J7	J8	J9
0000	57	37	35	34	56	55	53	55	50	46	42	39
MacroClean E-381												
111												
Mechanical												
TEST	UNITS		HIGH		LOW		AVERAGE					
Tensile Str	Lbs/SqIn		84000		80000		82000					
RA Per Cent	Percent		76.9		70.3		73.4					
Decarb FFD	Inches		.000		.000		.000					
Surface def. depth	Inches		.001		.001		.001					
Rod / Melt Source												
Rod Source	Melt Source	Country of Origin		Nafta								
Republic	Republic	USA		Yes								
End of Certification												

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

*Daniel J. Mallik*  
Daniel J. Mallik Director of Quality Assurance



## CERTIFICATE OF TESTS

1801 EAST 28TH ST.  
PHOENIX: 330-438-8580KOKOMO, IN 46055  
FAX: 330-438-8485

REPUBLIC STEEL

2/27/2013  
2:38:00 PM  
PAGE 1 OF 2PURCHASE ORD: 83625  
PART NUMBER: FXT40AA-.3125  
ORDER NUMBER: 1539858 - 01  
HEAT: 8172012PURCHASE ORDER DATE: 12/21/2012  
ACCOUNT NUMBER: 5672-1920-01  
SCHEDULE: 0354-93  
REVISION: 1

## CHARGE ADDRESS

JOHNSTOWN WIRE TECHNOLOGIES  
124 LAUREL AVE  
JOHNSTOWN, PA 15906

## SHIP TO

JOHNSTOWN WIRE TECHNOLOGIES  
EDWARD ZAPOLA  
124 LAUREL AVE  
TRUCK STOP 9 ROD DOCK  
JOHNSTOWN, PA 15904

## MATERIAL DESCRIPTION

HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA  
10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS  
JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MTL S 6049A & AMD 1 COND B-1 EXC MARK &  
UT WAIVED BP-AISI-8740-H FINE GRAIN VACUUM DEGAUSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY  
RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS  
SIZE: RDS .3125 DIAM X COIL  
RDS 7.9375MM DIAM X COIL

## LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR
0.42	0.87	0.008	0.013	0.25	0.07	0.43	0.49
V	MO	SN	AL	B	CB	N	
0.003	0.21	0.005	0.031	0.0000	0.001	0.0060	

## CALCULATED TESTS

REDUCTION RATIO 1,690.4 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM A29.

## SEMI - FINISHED RESULTS

JOMINY HARDNESS TEST SAE J406/ASTM A255  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32  
57 56 55 55 53 50 46 42 39 37 35 34 33 32 31 31 30 29 29 28 27 28 27 27MACRO ETCH TEST ASTM E381/MIL STD 430  
ETCHANT: HCL TEMPERATURE: 170  
S R C  
AVG 1 1 1MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300  
IND AVG IND AVG  
FREQ FREQ SEV SEV  
PCE 03 0 0 0 0

## FINISHED SIZE RESULTS

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558  
ETCHANT = NITAL MAGNIFICATION = 100X

	SPIKE	COMPLETE	TOTAL
	INCHES	INCHES	DEPTH
PCE 2394	0.002	0	0.002

G. KRUTH  
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES



## CERTIFICATE OF TESTS

1801 EAST 28TH ST.  
SHOWS: 330-458-2580LORAIN, OH 44055  
FAX: 330-458-5496

REPUBLIC STEEL

2/27/2013  
2:38:00 PM  
PAGE 2 OF 2PURCHASE ORD: 83625  
PART NUMBER: FXT40AA-.3125  
ORDER NUMBER: 1539850 - 01  
HEAT: 8172012PURCHASE ORDER DATE: 12/21/2012  
ACCOUNT NUMBER: 5672-1920-01  
SCHEDULE: 0354-93  
REVISION: 1

CAPABLE OF SEAM DEPTH 1% MAX DIAMETER NOT LESS THAN .005 MAX

## NOTES

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

## NOTES (CONTINUED)

ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

## SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A  
MELT METHOD: EF BLOOM RND. RATIO: 1690.4

END OF DATA CC END OF DATA

WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA  
FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA 1-814-532-5684  
FILE 1 COPYG. KRUTH  
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES





# B/E Aerospace, Inc.

Page: 1 of 1

## CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO25584**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	200	EA	MS24694S50		65120	MAC FASTENERS	0RPT4		

  
Jason Lewis  
Vice President of Quality

09/03/14



# B/E Aerospace, Inc.

Page: 1 of 1

## CONSUMABLES MANAGEMENT

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO25584**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
4	100	EA	MS21075L3		56736	ALCOA FASTENING/REPU	52828		

Jason Lewis  
Vice President of Quality

09/03/14


**CERTIFICATE OF TEST**

WE HEREBY CERTIFY THAT ALL MATERIALS USED IN THE MANUFACTURE OF PARTS COVERED BY THE REPORT CONFORM TO THE MATERIAL SPECIFICATIONS CALLED FOR BY THE PURCHASE ORDER. WE FURTHER CERTIFY THAT THE PARTS ARE MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWINGS OR SPECIFICATIONS CURRENT ON THE DATE OF MANUFACTURE. TEST REPORTS COVERING MATERIALS IN THESE PARTS AND INDICATING CONFORMANCE WITH APPLICABLE SPECIFICATIONS ARE ON FILE AND SUBJECT TO EXAMINATION. PARTS AS SHIPPED HAVE NEVER BEEN IN CONTACT WITH MERCURY. **THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF THE LABORATORY.**

PARTS MANUFACTURED IN: ☐ U.S.A. ☒ MEXICO  
AFS IS IN COMPLIANCE WITH DFAR 252.225.7009

*Dolpina Martinez*  
Signature of Quality Assurance Representative

7-29-14  
Date

P.O. No: 0NAP24

Item No: MS21075L3N REV.2

Quantity  
Ordered: 113,850

Date Cert  
Ordered: 7-29-14

Customer: B/E AEROSPACE  
CONSUMABLES

ID No.: 56736

Description: ASSEMBLY

Procurement  
Spec.: NASM25027

Also Certified To: MS21075L3  
NAS1068A3, NAS1068RA3 REV.13

Additional  
Info: RFM20A3

Date of  
Manufacture: 4-07-14

Notice to Subsequent Purchaser or Repacker.  
These articles are imported. The requirements of 19 U.S.C. 1304 & CFR part 134 provide that the articles or their containers must be marked in a conspicuous place as legibly, indelibly & permanently as the nature of the article or container will permit, in such a manner as to indicate to an ultimate purchaser in the United States, the English name of the country of origin of the article.

**IF APPLICABLE, CHECK ON BELOW:**

☐ **FAA CERTIFICATION (PMA):** IT IS HEREBY CERTIFIED THAT (A) THE PARTS AND/OR MATERIALS REFLECTED HERE-IN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN FEDERAL AVIATION REGULATION, PART 21, SUB-PART K, PARAGRAPH 21.303 AND (B) ALL PARTS AND/OR MATERIALS ARE CERTIFIED NEW, CONFORMS TO THE DESIGN DATA AND ARE IN AIR WORTHY CONDITION.

Signature of Quality Assurance Representative

Date

☒ **TSO-C148 STATEMENT:** THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IS ACCEPTABLE TO OR APPROVE BY THE ADMINISTRATOR.

*Dolpina Martinez*  
Signature of Quality Assurance Representative

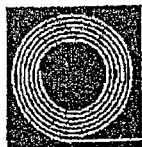
7-29-14  
Date



**FINAL (PROCESSING, LAB, MECHANICAL TESTING) INSPECTION REPORT**

Lot Number: <b>56736</b>	Part Number: <b>RFM20A3</b>	Dwg. Number: <b>NASM21075</b>	Dwg. Rev#: <b>2</b>	Lot Quantity: <b>113,850</b>	Date: <b>7-22-14</b>
Procurement Spec.: <b>NASM25027</b>		Proc. Spec. Rev#: <b>1</b>	Note: All Specifications Referenced Refer To The Most Current Revision Unless Otherwise Stated		
SAMPLE SIZE	CHARACTERISTIC DESCRIPTION	INSPECTION MEDIA	ACCEPTANCE STAMP	PRODUCTION RELEASE DATE	
NUT	Material: <b>CALSTRIP</b> Heat: <b>132690</b> Size: <b>.032 x .750</b>	Vendor Certification Alloy Verification	<b>RFM 208-1</b>	<b>4-7-14</b>	
CAP	Material: Heat: Size:	Vendor Certification Alloy Verification	<b>N/A</b>		
BASKET	Material: <b>CALSTRIP</b> Heat: <b>NLPR0931</b> Size: <b>.025 x .812</b>	Vendor Certification Alloy Verification	<b>RFM 208-1</b>	<b>4-7-14</b>	
CLIP	Material: Heat: Size:	Vendor Certification Alloy Verification	<b>N/A</b>		
	AMS2759/3 Stainless Steel Only Aged Load:	Tensile HRC Hardness Tester	<b>N/A</b>		
<b>15</b>	AMS-H-6875 Steel Only Austempering Load: <b>7-24-14</b>	Tensile HRC Hardness Tester	<b>RFM 207-1</b>	<b>7-24-14</b>	
	AMS2410 [ ] AMS2411 [ ]	Visual Adhesion And Thickness ASTM B568	<b>N/A</b>		
<b>80</b>	AMS-QQ-P-416 Class 1 [ ] 2 <b>M</b> 3 [ ]	Visual Adhesion And Thickness ASTM B568	<b>RFM 207-1</b>	<b>7-28-14</b>	
	AMS2400	Visual Adhesion And Thickness ASTM B568	<b>N/A</b>		
<b>10</b>	Embrittlement Relief	23 <b>✓</b> 48-50 [ ] Clip Hours Stress At Room Temp Per NASM1312, Test 14	<b>RFM 207-1</b>	<b>7-28-14</b>	
	Embrittlement Relief	96 [ ] Hours Stress At Service Temp Per NASM1312, Test 14 [ ] BPS-N-70 [ ]	<b>N/A</b>		
<b>80</b>	Gold Chromate Treatment Type II	Visual- Workmanship Salt Spray Test of AMS-QQ-P-416	<b>RFM 207-1</b>	<b>7-28-14</b>	
	Stainless Steel Only Passivated Per AMS-QQ-P-35, AMS2700	Visual High Humidity Test Per NASM1312	<b>N/A</b>		
	Magnetic Permeability <2.0 (Air 1.0) For A Field Strength = 200 Oersteds	Indicator Per ASTM A342 Method 3, Corrosion Resistant Steel Only	<b>N/A</b>		
<b>80</b>	Non-Destructive Testing Discontinuities Sample <b>✓</b> 100% [ ]	Magnetic Particle Per ASTM E1444 or Fluorescent Penetrant Per ASTM E1417	<b>RFM 207-1</b>	<b>7-2-14</b>	
32 PCS	Carbowax Per C-1315 Drawing Batch No:	Visual, Workmanship	<b>N/A</b>		
<b>27</b>	Dry Film Lubricant Per AS5272 Type 1 Batch No: <b>PC14738</b>	Visual, Workmanship, Adhesion Per AS5272 Verify Periodic Salt Spray	<b>RFM 207-1</b>	<b>7-28-14</b>	
	Microstructure	BPS-N-70 [ ] NAS3350 [ ]	<b>N/A</b>		
<b>32</b>	Threads Per MIL-S-8879, AS8879	Method B, System 22	<b>RFM 208-1</b>	<b>6-30-14</b>	

# CERTIFIED TEST REPORT



**Calstrip Steel Corporation**

REGISTERED ISO 9001:2008

7140 Bandini Blvd. \* Los Angeles, CA 90040-3388  
(323)726-1345 \* Fax (323)722-8269

NUT

<b>Customer:</b> ALCOA FASTENING SYSTEMS REPUBLIC <b>Address:</b> REPUBLIC FASTENER 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CA 91320	<b>Order Number:</b> S94796 / W123270 <b>Customer PO:</b> 220726654 <b>Shipped Date:</b> 05/20/2014 <b>Packlist ID:</b> 165977
<b>Part ID:</b> R620-032-750-CS <b>Description:</b> HC.CR.1050.032X750 XCOIL <b>Drawing #:</b> R620-032-750-CS <b>Rev #:</b> 08/20/08	<b>Material Spec:</b> AMS-5085H, AMS QQS-700B, QQS-635, ASTM A682-05, ASTM A684-12

**HeatID:** 132690

## CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5300	0.6200	0.0100	0.0010	0.2420	0.0450	0.0860	0.1140	0.0140	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0010		0.0040	0.0280				0.0100	0.0005

## MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
			HRB 78	OK
Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Skid Numbers	# of Coils	Weight
W123270-1	8	959
W123270-2	8	946
W123270-3	8	946
W123270-4	8	937
W123270-5	8	988
W123270-6	8	979
	48	5,755

**Comment:** SOURCE- NUCOR (USA)

RFM  
1

14-937 AV



All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

*Mario Vargas*

MARIO VARGAS

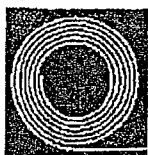
Technical Services

Form #:

Print Date: 5/20/2014

Page: 2

# CERTIFIED TEST REPORT



## Calstrip Steel Corporation

REGISTERED ISO 9001:2008

7140 Bandini Blvd. \* Los Angeles, CA 90040-3388  
(323)726-1345 \* Fax (323)722-8269

# BASKET

<b>Customer:</b> ALCOA FASTENING SYSTEMS REPUBLIC <b>Address:</b> REPUBLIC FASTENER 1300 RANCHO CONEJO BLVD. NEWBURY PARK, CA 91320	<b>Order Number:</b> S94796 / W123269 <b>Customer PO:</b> 220726654 ✓ <b>Shipped Date:</b> 06/04/2014 <b>Packlist ID:</b> 167068
<b>Part ID:</b> R620-025-812-CS ✓ <b>Description:</b> HC.CR.1050.025X.812XCOIL <b>Drawing #:</b> R620-025-812 <b>Rev #:</b>	<b>Material Spec:</b> AMS-5085H, AMS QQS-700B, QQS-635, ASTM A682-05, ASTM A684-12

**HeatID:** NLPR0931 ✓

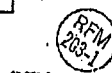
### CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resi
0.5100 ✓	0.6500 ✓	0.0060 ✓	0.0030 ✓	0.1790 ✓	0.0700	0.0400	0.1500	0.0200	
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0010	0.0200	0.0010	0.0360	0.0017			0.0080	

### MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test	Skid Numbers	# of Coils	Weight
			HRB 72	OK	W123269-1	8	1,458
					W123269-2	10	1,794 ✓
					W123269-3	9	1,736
						27	4,988
Grain Size	Olsen Test	Spher%	Decarb	Reduct %			
8		100	0				

**Comment:** SOURCE- NLMK (USA)



RFM

1

AV

14-941

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

*Mario Vargas*

MARIO VARGAS Technical Services

Form #:

Print Date: 6/4/2014

Page: 2



# B/E Aerospace, Inc.

Page: 1 of 1

## CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO25584**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	50	EA	MS35207-262		R34854	PILGRIM SCREW (RI)	47253		

  
Jason Lewis  
Vice President of Quality

09/03/14

# PILGRIM

Screw Corporation

## PACKING LIST

ARIZONA - 480-917-2500

SHIPPED FROM  
259 DEXTER STREET and 120 SPRAGUE STREET  
PROVIDENCE, RI 02907

RHODE ISLAND - 401-274-4090

6/19/2014



PAC140213

BE  
BILL TO: B/E AEROSPACE  
CONSUMABLES MANAGEMENT  
MIAMI FL 33102-5263  
P.O. BOX 025263

SHIP TO: B/E AEROSPACE  
CONSUMABLES MANAGEMENT  
9835 NW 14TH STREET  
MIAMI, FL 33172

OUR ORDER #      TERMS  
ORD118013      Net 30\*DNI\*033101490

FREIGHT SHIP VIA  
C      FedEx Ground

SHIPPING DATE  
6/19/2014

CUSTOMER PO #:



0XPM87

QTY      U/M      PART #      DRAWING #



250,000

EA



MS35207-262

NASM35207

Revision: 2

10-32 X 7/16 PH PAN STL/Cd2  
OR SOONER  
RELEASE # RB5H0XPM87

LOT#:

R34854 QTY: 250,000.00      pc#202  
32 CTNS, TOTAL WT. 1344.00 LBS WITH 0 ON BACKORDER  
MFR C OF C  
CHEM AND PHYS  
RAW MATERIAL AND PROCESS CERTS

QUALITY CLAUSES: A, B, C, E, H, P, U, V APPLY

PILGRIM LATEST REV: \_ PLEASE NOTIFY OF ANY NEWER REV  
REQUESTS

SHIPPING INSTRUCTIONS:

**\*\*NO OVERSHIPMENTS\*\***

IF UNDER 150 LBS SHIP FEDEX GROUND ACCT# 0331-0149-0 MARK:  
COLLECT

IF OVER 150 LBS, SHIP FEDEX FREIGHT ECONOMY ACCT 018757

### CERTIFICATE OF COMPLIANCE

We hereby certify that all items delivered on this invoice comply with all applicable drawing, specification, and purchase order requirements. Evidence of such is on file for review for a minimum of 10 years. All products manufactured by Pilgrim Screw are of domestic origin and have not come in contact with mercury while in our possession. Also all special processes were performed by approved sources at the time of manufacture. Shortage claims must be made within (5) days after receipt of the goods. Quality claims must be made within (30) days after receipt of the goods. Returns will not be accepted without a 'Return Material Authorization' number. All goods returned must have the freight prepaid.

MADE IN THE USA

Page # 1

Authorized Rep.





# PILGRIM

Screw Corporation

## PACKING LIST

ARIZONA - 480-917-2500

SHIPPED FROM  
259 DEXTER STREET and 120 SPRAGUE STREET  
PROVIDENCE, RI 02907

RHODE ISLAND - 401-274-4090

6/19/2014



PAC140213

BE  
BILL TO: B/E AEROSPACE  
CONSUMABLES MANAGEMENT  
MIAMI FL 33102-5263  
P.O. BOX 025263

SHIP TO: B/E AEROSPACE  
CONSUMABLES MANAGEMENT  
9835 NW 14TH STREET  
MIAMI, FL 33172

OUR ORDER #      TERMS  
ORD118013      Net 30\*DNI\*033101490

FREIGHT SHIP VIA  
C      FedEx Ground

SHIPPING DATE  
6/19/2014

CUSTOMER PO #:



0XPM87

QTY	U/M	PART #	DRAWING #
-----	-----	--------	-----------

\*\*\*DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT\*\*\*

Schedule B#: (7318159000)  
ECCN #: 9A991d "NLR"

SHIPPING INSTRUCTIONS: LABEL ON OUTSIDE OF BOX

HONEYWELL SOURCE ACCEPTED:

STAMP IMPRESSION

DATE:



6/19/2014

\*\*\*\*BOXES MUST NOT EXCEED 40 LBS EACH\*\*\*\*

## CERTIFICATE OF COMPLIANCE

We hereby certify that all items delivered on this invoice comply with all applicable drawing, specification, and purchase order requirements. Evidence of such is on file for review for a minimum of 10 years. All products manufactured by Pilgrim Screw are of domestic origin and have not come in contact with mercury while in our possession. Also all special processes were performed by approved sources at the time of manufacture. Shortage claims must be made within (5) days after receipt of the goods. Quality claims must be made within (30) days after receipt of the goods. Returns will not be accepted without a 'Return Material Authorization' number. All goods returned must have the freight prepaid.

MADE IN THE USA

Page # 2

Authorized Rep.



**Pilgrim  
Screw**  
CORPORATION  
*Established 1932*

## CHEMICAL AND PHYSICAL CERTIFICATE

**SOLD TO**

B/E AEROSPACE  
CONSUMABLES MANAGEMENT  
MIAMI FL 33172

**MADE IN THE USA**

CAGE CODE: 47253

DOCUMENT # PSQR0001 REV 4

**MANUFACTURED BY**

PILGRIM SCREW CORPORATION  
120 SPRAGUE STREET  
PROVIDENCE RI 02907  
USA

TEL. 401-274-4090 FAX. 401-861-9890

**CUSTOMER PO #/ CONTRACT #**  
0XPM87

**PACKING LIST #**  
PAC140213

**PURCHASE QTY**  
250,000

**LOT # / JOB #**  
R34854

**MANUFACTURE DATE**  
6/18/2014

**CERTIFICATION DATE**  
6/20/2014

**RAW MATERIAL HEAT #**  
2JX74

**MATERIAL GRADE**  
UNS G10180

**RAW MATERIAL SOURCE**  
INDUSTRIAL STEEL/CHUN YU

**SPECIFICATION/PART# - DRAWING # - REVISION**  
MS35207-262 NASM35207 2

**NOMENCLATURE/ITEM DESCRIPTION**  
10-32UNF-2A X 7/16 PH PAN HD MACH SCREW

**PROCUREMENT SPECIFICATION**  
FF-S-92B(1)

**THREAD SPECIFICATION**  
FED-STD-H28/2B/20B(22)

**MATERIAL SPECIFICATION**  
ASTM A108

**HEAT TREAT SPECIFICATION**  
N/A

**FINISH SPECIFICATION**  
AMS-QQ-P-416C CLASS 3 TYPE 2

**NOTES****QA TEST SUMMARY****OTHER TESTS**

**UTLIMATE TENSILE LBS / P.S.I.**  
1464/73222

**MAGNETIC PERMEABILITY**  
N/A

**HARDNESS**  
N/A

**YIELD LBS / P.S.I.**  
N/A

**TORQUE IN / LBS**  
N/A

**SHEAR LBS / P.S.I.**  
N/A

Test data will be on file for at least 10 years from the date of manufacture, or as agreed upon in the contract. This lot has been produced, sampled, tested, inspected, and marked in accordance with all contract and specification requirements, and the material complies with all the contract and specification requirements. The product specified herein was not in contact with Mercury while in our possession. Class 1 ozone-depleting substances of the clean air amendment of 1990 were not used in the design, manufacture, or test of the item.

Electronically counted quantity is within +/- 1% Specified.

*Rafaela*



1901 N. Narragansett Ave. • Chicago, Illinois 60639  
773/804.0404 • Fax 773/804.0408  
www.industeel.com  
An ISO 9001 Certified Company

04/21/14

ISW Order/Invoice Number: 185470-00

SOLD TO: P6100  
PILGRIM SCREW CORPORATION  
120 SPRAGUE ST

SHIP TO: P6101  
PILGRIM SCREW CORPORATION  
259 DEXTER ST

PROVIDENCE RI 02907

PROVIDENCE RI 02907

CUSTOMER PO: 68822

1710GIPC

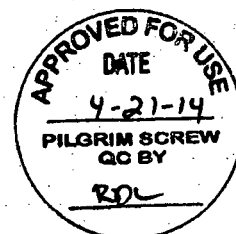
.1710"C1018 COLD HEADING AKFGSAIP COILS

WEIGHT: 3278

HEAT NUMBER: 2JX74

#### CHEMISTRIES

C	Mn	P	S	Si	Al
.180	.770	.017	.007	.050	.045



#### PHYSICAL PROPERTIES

TENSILE: 61000. 61000.

TORSIONS:

ROCKWELL #1:  
ROCKWELL #2:

BENDS:  
SALT SPRAY HOURS:  
COATING WEIGHT:  
GRAIN SIZE:

YIELD STRENGTH:  
ELONGATION:  
REDUCTION OF AREA: 79.0/79.0

\*\*\*\* MERCURY FREE \*\*\*\*

\*\*\* SPECIFICATIONS \*\*\*  
IFI 140  
ASTM F2282-03  
ASTM A108 CHEM ONLY

TARIFF: 7217.10  
NAFTA:

MELT: TW TAIWAN  
ORIG: TW TAIWAN  
MILL: NORTHBAY ENTERPRISES  
DFAR: N  
ROHS: Y

Rey Domingo, Quality Control Manager

The values and specifications herein are passed through from the manufacturer directly to the customer.  
Please see reverse side or www.industeel.com for all Terms and Conditions of Sale.  
Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12



# CHUN YU WORKS & CO., LTD.

HEAD OFFICE:  
1, CHIASHING, KANGSHAN, KAOHSIUNG, 82057 TAIWAN  
TEL: 886-7-621-4121 FAX: 886-7-622-3256

SALES DEPT:  
100, TA-PAO ST. KANGSHAN, KAOHSIUNG, 82063 TAIWAN\*  
TEL: 886-7-622-4111 FAX: 886-7-623-6721



\* Location within the  
AZLA Scope of  
Accreditation

CY-G4-01-16-04

## TEST CERTIFICATE

1710 GIPC CY2U

REPORT NO: ISW20140902

CUSTOMER	INDUSTRIAL STEEL & WIRE		
P.O. NUMBER:	PO# 057509	INVOICE NO:	ISW-2014
S/C NUMBER:	ISW-25155	DATE OF ISSUE:	2012/09/25
MATERIAL SPEC:	AISI-1018 AK SAJP	BUNDLE QTY:	4 BUNDLES
BUNDLE WEIGHT:	ABT 1632 LBS	TOTAL WEIGHT:	6530 LBS

### CHEMICAL COMPOSITION: %

HEAT NO.	BUNDLE NO	C X100	Mn X100	P X1000	S X1000	SI X100	Cu X100	Ni X100	Cr X100	Mo X100	V X1000	B X10000	Al X1000
2JX74	6-7	18	77	17	7	5	***	***	***	***	***	***	45
3NG78	1-2	18	82	19	9	5	***	***	***	***	***	***	37

PHYSICAL PROPERTIES:	DIAMETER IN	TENSILE STRENGTH KSI	REDUCTION OF AREA %
SPECIFICATION	0.171 +0.001 - 0.000	68 MAX	62 MIN

### TEST RESULT

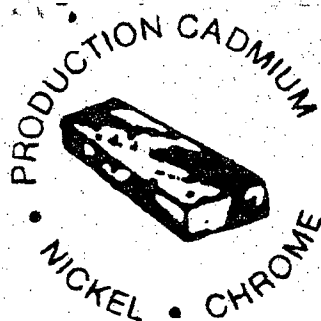
BUNDLE NO	DIAMETER IN	TENSILE STRENGTH KSI	REDUCTION OF AREA %	HEAT NO.
6-7	0.171-0.171	61-61	79-79	2JX74
1-2	0.171-0.171	60-60	79-79	3NG78

Q.A. MANAGER:

S. H. LAI <sup>note</sup> 10/17/12

WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

FIXED  
4/21



*New Method Plating Co., Inc.*

Quality  
Management  
System  
ISO 9001:2000  
AS9100 REV.C  
Certified

Established 1931



43 Hammond St.  
Worcester, MA 01610  
Phone 508.754.2671  
Fax 508.754.1981  
www.newmethodplating.com

**CERTIFICATE OF COMPLIANCE**

COMPANY PILGRIM SCREW CORP.

DATE 6/16/14

PO#

LOT#

QUANTITY

69939

R34854

303,845

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III, Type II (Clear      Yellow X Black     )

Hardness: NA HRC

☒ NO BAKE

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 3 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

**Thickness Test Results**

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00036 Avg .00040

Accept ☒ Reject ☐

Inspected by: 

**Certification**

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

Signed: 

Christopher J. Capalbo

Title: Quality Manager

Date: JUN 16 2014